# **MLC 104 Series**

MEDIALINK™ CONTROLLERS

- Universal projector control
- Integrated IP Link<sup>™</sup> (MLC 104 IP only)
  - Proactive maintenance
  - Event scheduling
  - Remote technical support
  - Theft alerts
- Configurable backlit buttons
- Inactivity timer for display shut-off
- Front panel security lockout
- Volume control with five levelstatus LEDs
- Versatile mounting options



The Extron MLC 104 Series of MediaLink Controllers offer simple user interfaces and centralized room control. As part of the MediaLink System, the flexible MLC 104 is an intuitive remote control panel engineered to streamline operations and control of audio, video, and computer sources into an easy-to-use A/V system.



## DESCRIPTION

The Extron **MLC 104** MediaLink Controllers are easy-to-use, simplified control panels for any small classroom or boardroom. They standardize the control interface for all systems, making projection systems simple to use. Standardization also makes setup and maintenance easier to support.

The flexible MLC 104 acts as an extended remote control panel. It is not a switcher; instead, as a controller, it tells the projector when to switch between its various inputs. Presenters with little or no training can walk into any multimedia classroom and operate the A/V system. The MLC 104 includes universal projector control for a projector's power, input switching, and volume control. For one-button functionality, the MLC 104 features backlit buttons that can be custom-labeled for easy identification. Because the buttons illuminate, they are helpful for presenters in low-light environments.

The MLC 104 IP features Extron's innovative IP Link™ Ethernet control technology to enable remote diagnostics, asset management and support.

Especially vital for high traffic areas, the MLC 104 and MLC 104 IP are housed in secure two-gang enclosures. They have the same look and functionality regardless of where they are mounted: a lectern, desk, wall, rack, or wall box.

## **FEATURES**

- Universal projector control The MLC 104 has a dedicated port for communicating with virtually any projector or display via IR or RS-232. Control drivers can be downloaded or created using the intuitive software.
- Projector power control Discreet ON and OFF backlit buttons simplify system operations and eliminate the need for external projector remote.
- Bi-directional RS-232 port for universal projector control The MLC 104 has a dedicated port for communicating with virtually any projector or plasma via IR or RS-232. Control drivers can be downloaded or created using the intuitive software.
- RS-232 port for MediaLink switcher support For controlling an optional Extron MediaLink switcher, such as the MLS 406SA.
- IP firmware upgrade The MLC 104 models without IP Link can be field upgraded to full IP-enabled devices with the same functionality as the MLC 104 IP models.
- Configurable buttons can be set up to trigger a variety of functions such as selecting an input, sending a serial or IR command, or controlling a relay.
- Tri-color, backlit, easy to label buttons can be customized for each installation and provide easy operation for presenters in low-light environments.
- Inactivity timer for display shut-off Adjustable timer control provides automatic shutdown to preserve energy, prevent plasma burn-in, or extend projector lamp life.
- Front panel security lockout When the security lock-out mode is engaged, the MLC 104's front panel becomes inoperable unless a user-defined PIN number is entered.
- Volume control Volume control provides adjustment of projector or MediaLink switcher audio levels, allowing for convenient, centralized control without additional remotes. The five LEDs provide clear indication of the current audio setting.
- Secondary Control Panel The optional SCP 104 duplicates the MLC 104's front panel buttons and offers a second access point within a room.
- AAP openings The MLC 104 AAP and MLC 104 IP AAP fit into fourgang wall plates and include four single space Architectural Adapter Plate (AAP) openings. Blank AAPs are not included. The openings allow for integration with many of Extron's AAPs, including signal pass-through connections.
- Color choices The MLC 104 controllers are available in black, white, or RAL9010 white for architectural integration.
- Mounting options Flexibility in installation allows for numerous architecturally compatible possibilities.

#### **System Configuration**

Extron creates and administers a wide selection of commonly used projector control drivers. These RS-232 drivers are essential for the MLC 104 to effectively communicate with a display device. They enable the MLC 104 to control basic projector functions such as power, input selection, and volume adjustment.

The MLC 104 is designed to work with almost every Extron switcher, including the MediaLink Switchers (MLS) and VersaTools™ MediaLink Switchers, which are specifically designed to complement MediaLink controllers. Each product of the MLS line switches video, computer-video, and/or audio and provides unique features such as volume and tone control. The MLC 104 can also work as a stand-alone device to control a projector without the aid of a switcher.

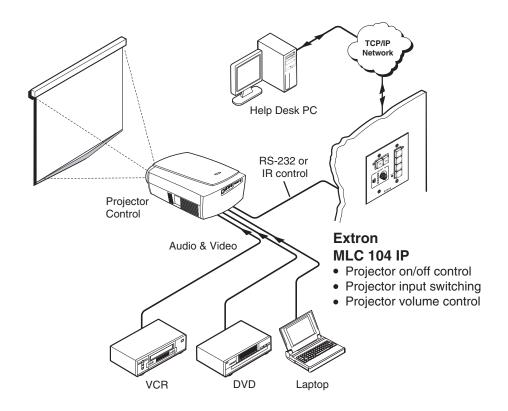


#### **IP Link™ Ethernet Control**

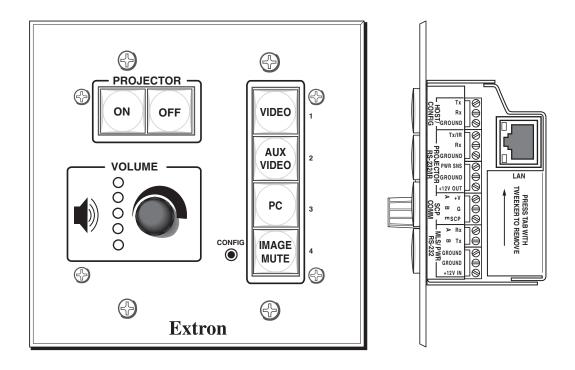
The MLC 104 IP is equipped with Extron's IP Link, an IP integration technology specifically engineered to meet the needs of professional A/V environments — from small K-12 classrooms to large universities and businesses. IP Link Global Viewer, a free Web-based asset management and remote control software application, is specifically designed to work with products that include IP Link technology. It facilitates key asset management functions including:

- Proactive maintenance The Global Viewer can store and display information about connected devices like serial numbers, owner identification, maintenance history, and installed firmware versions. This centralized data can be collected and used to reduce maintenance costs and guide future purchasing decisions. For instance, a projector can be polled routinely to track lamp usage and total life time. When lamp usage reaches a predetermined number of hours, the MLC 104 IP can send a report via e-mail.
- Event scheduling The Global Viewer uses the real-time clock and calendar in IP Link-enabled devices to maximum value. User-defined tasks are easy to configure and schedule with the Global Viewer Configurator (GVC) and don't require high-level programming skills. For instance, an administrator can schedule all projectors to turn off every Friday at close of business.
- Remote technical support Technicians can troubleshoot systems
  remotely because the Global Viewer provides the real-time status of
  connected devices. Information such as connection status, power state,
  and current input selection is displayed in a central location. For many
  connected devices, technicians can toggle power on or off, switch
  sources, control volume, and more without leaving their office. Many
  common problems can be resolved without a trip to where the
  equipment is located.
- Theft alerts IP Link-enabled products are always on and routinely poll
  their attached devices for status information. If any serially controlled
  device such as a projector or display is physically disconnected from the
  serial port, the MLC 104 IP monitoring its status will know immediately.
  In such an event, it can send an e-mail message notifying security
  personnel of the possible theft. For fast action, e-mails can be sent to
  multiple addresses including cell phones and wireless PDAs.

	MLC CONTROLLER HOST PORTS	Model	Part Numbers
·	2 RS-232: (1) 3.5 mm direct insertion captive	MLC 104 (Controller Only)	
	screw connector, 3 pole; 1 front panel	MLC 104 (black)	. 60-665-02
	2.5 mm TRS jack	MLC 104 (white)	
	38400, 8 data bits, 1 stop bit, no parity	MLC 104 (RAL9010 Wille)	
	Direct insertion captive screw connector:	MLC 104 L (white)	
ochur coma or pin comigurations	1 = TX, 2 = RX, 3 = GND	MLC 104 L (White)	
	2.5 mm TRS jack: tip = TX, ring = RX,	MLC 104 AAP (black)	
	sleeve = GND	MLC 104 AAP (white)	
thernet control port	1 RJ-45 female	MLC 104 AAP (RAL9010 white)	. 60-665-15
	10/100Base-T, half/full duplex with autodetect	MLC 104 IP (Controller Only)	60-573-00
thernet protocol	ARP, DHCP, ICMP (ping), TCP/IP, Telnet, HTTP,	MLC 104 IP (black)	
	SMTP	MLC 104 IP (white)	
thernet default settings	Link speed and duplex level = autodetected	MLC 104 IP (RAL9010 white)	
	IP address = 192.168.254.254,	MLC 104 IP L (black)	
	subnet mask = 255.255.0.0,	MLC 104 IP L (white)	
	default gateway = 0.0.0.0 DHCP = off	MLC 104 IP L (RAL9010 white)	
xtron remote key pad control	(1) 3.5 mm direct insertion captive screw	MLC 104 IP AAP (black)	
Adolf remote key pud condomini	connector, 3 pole	MLC 104 IP AAP (white)	
Program control	Extron's configuration program for Windows®	MLC 104 IP AAP (RAL9010 white)	. 60-573-15
Togram control	Extron's Simple Instruction Set (SIS <sup>TM</sup> )	1	
		Included Accessories	
	Microsoft® Internet Explorer, Netscape®	MLC 104 / MLC 104 AAP	70.055.04
	Navigator®, Telnet	12V/1Amp power supply	. /0-055-01
		2-gang/4-gang mud ring	
CONTROL — PROJEC	TOR/DISPLAY	Button labels text	
CONTROL — PROJEC	TOR/DISPLAT	Button labels icon	
Projector control port	(1) 3.5 mm direct insertion captive screw	9 pin, 2.5mm RS-232 Cable	. /0-355-01
, r - F	connector, 3 pole programmable for RS-232	MLC 104 L	70 055 01
	control (±5 V) or TTL level (0 to 5 V) infrared	12V/1Amp power supply Button labels text	/0-055-01
	control up to 1 MHz	Button labels icon	
Baud rate and protocol (RS-232)	115200 57600 20400 10200 0600	9 pin, 2.5mm RS-232 Cable	
		MLC 104 IP / MLC 104 IP AAP	. /0-333-01
	(default), 4800, 2400, or 1200 baud	12V/1Amp power supply	70-055-01
	(configurable); 8 data bits; 1 (default) or 2	2-gang/4-gang mud ring	70-035-01 70-086-X1/X3
	stop bits; no parity (default), or even or odd	Button labels text	33-954-01
	parity	Button labels icon	
		6' RJ-45 crossover cable	
CONTROL — SWITCH	ED	MLC 104 IP L	20 371 01
CONTROL — SWITCH	IEN	12V/1Amp power supply	. 70-055-01
witcher control port	(1) 3.5 mm direct insertion captive screw	Button labels text	. 33-954-01
	connector, 3 pole, for RS-232 control (±5 V)	Button labels icon	. 33-955-01
Baud rate and protocol	115200 57600 38400 19200 9600	6' RJ-45 crossover cable	. 26-591-01
	(default), 4800, 2400, or 1200 baud		
	(configurable); 8 data bits; 1 (default) or 2	Optional Accessories	
	stop bits; no parity (default), or even or odd	SCP 104	. 60-672-XX
		UC 50'	
	parity	IR Emitter	
		9 pin 2.5 RS-232 Cable	
GENERAL		MLA-VC10	. 60-502-01
		2-gang mudring	. 70-086-0X
-	Committee like on a making of NA miletial III and IM mode along	4-gang mudring	. /0-086-0X
ower		DO LEGALO	(0.271.01
ower	or the included external power supply	Display power sensor	. 60-271-01
ower	or the included external power supply	IR broadcaster	. 60-271-01 . 60-272-02
ower		IR broadcasterP/S 100 power supply	. 60-271-01 . 60-272-02 . 60-357-01
owerxternal power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated	IR broadcasterP/S 100 power supply12V/1Amp power supply	60-271-01 60-272-02 60-357-01 70-055-01
vxternal power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A	IR broadcasterP/S 100 power supply	60-271-01 60-272-02 60-357-01 70-055-01 980057/980084
vxternal power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and	IR broadcaster P/S 100 power supply	60-271-01 60-272-02 60-357-01 70-055-01 980057/980084 980097
vxternal power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x
xternal power supply vower input requirements	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-4-gang	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x
xternal power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-4-gang EWB-10X8	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-457-0x
xternal power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-4-gang EWB-10X8 SMB-2-gang	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x
xternal power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-4-gang EWB-10X8 SMB-2-gang SMB-4-gang	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x . 60-640-02 . 60-642-02
cover supply sternal power supply sup	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang)	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-1-0XB SMB-2-gang EWB-10XB SMB-4-gang SMB-4-gang SMB-4-gang	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x . 60-642-02 . 60-644-02
cover supply sternal power supply sup	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang)	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-4-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-6-gang UCM 10x8	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x . 60-640-02 . 60-642-02 . 60-644-02 . 70-341-02/03
cover supply sternal power supply sup	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-4-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang SMB-4-gang UCM 10x8 UCM RAAP	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-453-0x . 60-457-0x . 60-640-02 . 60-642-02 . 60-644-02 . 70-341-02/03 . 70-344-02/03
external power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang)	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang SMB-6-gang UCM 10x8 UCM RAAP MLM 104 6GWP	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-455-0x . 60-640-02 . 60-642-02 . 60-644-02 . 70-341-02/03 . 70-355-02
external power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang SMB-6-gang UCM 10x8 UCM RAAP MLM 104 6GWP MLM 104 LAAP	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x . 60-640-02 . 60-644-02 . 70-341-02/03 . 70-345-02 . 70-355-02 . 70-357-02/03
external power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x 8.9 cm W x 4.6 cm D) (fits some 2 gang	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-10X8 SMB-2-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang SMB-4-Gang UCM 10x8 UCM RAAP MLM 104 6GWP MLM 104 LAAP MLM 104 EC (RAL9010 white)	. 60-271-01 . 60-272-02 . 60-257-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x . 60-640-02 . 60-642-02 . 70-341-02/03 . 70-355-02 . 70-355-02 . 70-357-10
external power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x 8.9 cm W x 4.6 cm D) (fits some 2 gang boxes) (Depth excludes knob and buttons.)	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-10X8 SMB-2-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang UCM 10x8 UCM RAAP MLM 104 6GWP MLM 104 LAAP MLM 104 EC (RAL9010 white). MLM 104 MK	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x . 60-640-02 . 60-642-02 . 60-644-02 . 70-341-02/03 . 70-355-02 . 70-355-02 . 70-357-02/03
cover	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x 8.9 cm W x 4.6 cm D) (fits some 2 gang boxes) (Depth excludes knob and buttons.) 1.9 lbs (0.9 kg)	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-4-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-6-gang UCM 10x8 UCM RAAP MLM 104 6GWP MLM 104 LAAP MLM 104 EC (RAL9010 white) MLM 104 MK MLM 104 MAP EC (RAL9010 white)	. 60-271-01 . 60-272-02 . 60-257-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-455-0x . 60-640-02 . 60-642-02 . 60-644-02 . 70-341-02/03 . 70-355-02 . 70-357-02/03 . 70-357-10 . 70-357-10 . 70-358-10
cover	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x 8.9 cm W x 4.6 cm D) (fits some 2 gang boxes) (Depth excludes knob and buttons.) 1.9 lbs (0.9 kg) 6 lbs (3 kg)	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang SMB-4-gang UCM 10x8 UCM 10x8 UCM 10x8 UCM 104 EC (RAL9010 white) MLM 104 MK MLM 104 MAP EC (RAL9010 white) Button label int'l	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-455-0x . 60-640-02 . 60-642-02 . 60-644-02 . 70-341-02/03 . 70-355-02 . 70-357-10 . 70-357-10 . 70-358-10 . 33-1167-0X
cover	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x 8.9 cm W x 4.6 cm D) (fits some 2 gang boxes) (Depth excludes knob and buttons.) 1.9 lbs (0.9 kg)	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang SMB-4-gang UCM 10x8 UCM RAAP MLM 104 6GWP MLM 104 LAAP MLM 104 LAAP MLM 104 LAAP MLM 104 LAAP MLM 104 MK MLM 104 MK MLM 104 AAP EC (RAL9010 white) Button label int'1 MLS 100 A	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x . 60-640-02 . 60-640-02 . 70-341-02/03 . 70-344-02/03 . 70-355-02 . 70-357-02/03 . 70-357-10 . 70-358-10 . 33-1167-0X . 60-497-01
cover	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x 8.9 cm W x 4.6 cm D) (fits some 2 gang boxes) (Depth excludes knob and buttons.) 1.9 lbs (0.9 kg) 6 lbs (3 kg)	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-10X8 SMB-2-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang SMB-4-gang SMB-4-gang MLM 104 6WP MLM 104 6GWP MLM 104 6GWP MLM 104 EC (RAL9010 white) MLM 104 MK MLM 104 AAP EC (RAL9010 white) Button label int'l MLS 100 A MLS 102 VGA	. 60-271-01 . 60-272-02 . 60-357-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x . 60-640-02 . 60-642-02 . 60-644-02 . 70-341-02/03 . 70-355-02 . 70-355-02 . 70-357-02/03 . 70-357-10 . 70-357-10 . 70-357-10 . 70-357-10 . 60-497-01 . 60-497-01
cover	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x 8.9 cm W x 4.6 cm D) (fits some 2 gang boxes) (Depth excludes knob and buttons.) 1.9 lbs (0.9 kg) 6 lbs (3 kg) ISTA 1A in carton (International Safe Transit Association)	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-4-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang UCM 10x8 UCM 10x8 UCM 10x8 UCM 10x8 UCM 104 EGWP MLM 104 LAAP MLM 104 EC (RAL9010 white) MLM 104 MK MLM 104 AAP EC (RAL9010 white) Button label int'l MLS 100 A MLS 102 VGA MLS 102 VGA	. 60-271-01 . 60-272-02 . 60-237-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-457-0x . 60-640-02 . 60-644-02 . 70-341-02/03 . 70-344-02/03 . 70-357-02/03 . 70-357-02 . 70-357-02 . 70-357-02 . 33-1167-0X . 60-497-04
cover	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x 8.9 cm W x 4.6 cm D) (fits some 2 gang boxes) (Depth excludes knob and buttons.) 1.9 lbs (0.9 kg) 6 lbs (3 kg) ISTA 1A in carton (International Safe Transit Association) UL, CUL	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang UCM 10x8 UCM 10x8 UCM 10x8 UCM 10x8 UCM 104 AAP MLM 104 LAAP MLM 104 LAAP MLM 104 LAAP MLM 104 BC (RAL9010 white) MLM 104 MK MLM 104 AAP EC (RAL9010 white) Button label int'l MLS 100 A MLS 100 VGA MLS 100 VGA MLS 100 VGA MLS 103 V	. 60-271-01 . 60-272-02 . 60-257-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-455-0x . 60-457-0x . 60-642-02 . 60-644-02 . 70-341-02/03 . 70-355-02 . 70-357-02/03 . 70-357-02/03 . 70-357-02 . 33-1167-0x . 60-497-01 . 60-497-04 . 60-497-04
xternal power supply	or the included external power supply 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated 12 VDC, 0.5 A Yes, with optional rack mounting kits, and also wall- and furniture-mountable with optional mounting kits Metal 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) 4.5" H x 8.3" W x 0.1" D (11.4 cm H x 21.2 cm W x 0.3 cm D) (4 gang) 2.75" H x 3.5" W x 1.8" D (7.0 cm H x 8.9 cm W x 4.6 cm D) (fits some 2 gang boxes) (Depth excludes knob and buttons.) 1.9 lbs (0.9 kg) ISTA 1A in carton (International Safe Transit Association) UL, CUL CE, FCC Class A, VCCI, AS/NZS, ICES	IR broadcaster P/S 100 power supply 12V/1Amp power supply 2-gang back box 4-gang back box EWB-2-gang EWB-4-gang EWB-10X8 SMB-2-gang SMB-4-gang SMB-4-gang UCM 10x8 UCM 10x8 UCM 10x8 UCM 10x8 UCM 104 EGWP MLM 104 LAAP MLM 104 EC (RAL9010 white) MLM 104 MK MLM 104 AAP EC (RAL9010 white) Button label int'l MLS 100 A MLS 102 VGA MLS 102 VGA	. 60-271-01 . 60-272-02 . 60-257-01 . 70-055-01 . 980057/980084 . 980097 . 60-453-0x . 60-455-0x . 60-455-0x . 60-457-0x . 60-642-02 . 60-644-02 . 70-341-02/03 . 70-355-02 . 70-357-02/03 . 70-357-02/03 . 70-357-02 . 33-1167-0x . 60-497-01 . 60-497-04 . 60-497-04



## PANEL DRAWING





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